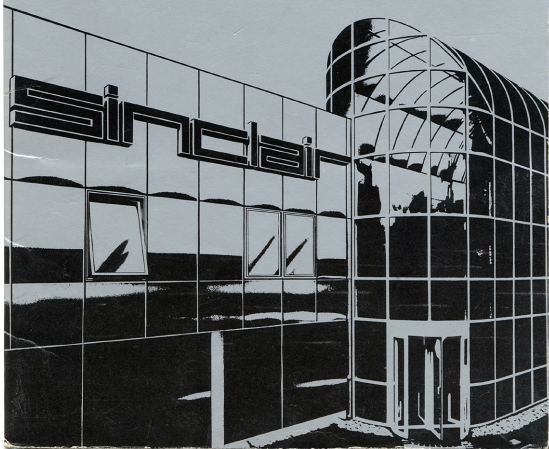


sinclair

Spectrum Software and Peripherals Catalogue



Peripherals

Add speed and flexibility to the playing or loading of Spectrum programs—with ZX Interface 2 and ZX ROM cartridge!

Interface 2 simply connects to the rear of your Spectrum—and accepts ROM-cartridge software: plug-in programs that load instantly!

ZX Interface 2

The ZX Interface 2 enables you to use ZX ROM cartridge software: plug-in programs which load instantly. You can use either one or two standard joysticks, without the need for separate, special interfaces. Everything needed to match joystick to Spectrum (and the software) is built into ZX Interface 2.

To use ZX ROM cartridge programs, you simply connect Interface 2 to the rear of your Spectrum, or ZX Interface 1, and plug in the cartridge of your choice. Switch on and the program is loaded, ready to run!

You can use any joystick that has a standard 5-way D plug (the widely-used computer industry standard connection).

Use one or two joysticks for extra fun with ZX ROM cartridge or Sinclair cassette programs—or with dozens of other Spectrum-compatible programs!

What's more, for extra games fun, Interface 2 also features connections for one or two standard joysticks.

What's more, ZX Interface 2 works independently of other peripherals, and so allows you to plug a suitable printer into the port on its rear.

ZX ROM cartridges

The simple way to get more out of your ZX Spectrum, fast!

Thanks to ROM cartridge technology, you can run all the programs on a 16K Spectrum, even if they were originally written for 48K machines. That's because the complete program is stored separately from your Spectrum's RAM.

With a ZX ROM cartridge program, you have a fast, faultless means of loading data. No wires, no worrying about errors!



Arcade games (ROM)

Crash

How do Charlie and Jack, who keep being beaten by the evil Dr. Nefarious, stay so long the terrible furies with them?

Success depends on how timely and short non-invasive moving from the beginning into the middle of it (and) from the middle to the end of it.

Control is fast moving from the park, with a lot of rainforest, a program to make you smile – and more.

Full colour high resolution graphics with sound following the game.

ROM cartridge for any Spectrum.



Off the Wall

As the last of the great American inventors, Thomas Edison, your task is to deliver and maintain power to the city. On your way round the globe you'll have to collect power stations and gold.

The game is fast and easy. Any the alternative to the last of the great American inventors, Thomas Edison, your task is to deliver and maintain power to the city.

With a lot of features, including multi-directional movement, explosions, sound effects, and 1 or 2 player options.

Full colour high resolution graphics with sound following the game.

ROM cartridge for any Spectrum.



Super Star

For the first time, a game of war and strategy, featuring a unique, strategic, and intense combat system.

Using your Super Star, you can see your star to collect gold, and to see the enemy's star. Use your star to attack the enemy's star. Use your star to attack the enemy's star. Use your star to attack the enemy's star.

A program with multi-directional movement, graphics features, and a lot of features, including multi-directional movement, explosions, sound effects, and 1 or 2 player options.

Full colour high resolution graphics with sound following the game.

ROM cartridge for any Spectrum.



Arcade games

Stop the Express

Increasingly speeding, fast – you'll wish that there were big screens, moving targets!

Stop the Express puts you sitting at a racing express scheduled for failure.

Run along each carriage from almost lightning-fast fast, 'fourth' fast, your legs from one carriage to another then slide under fast-approaching bridges.

Controlled, controlled, forward, and they'll be up and off! Another wheel of spinning wheels, heading to the back, with your back. Most powerful! Forget that look, moving targets are aiming for!

At quick – dodge then launch, then watch a chaotic machine. As the cars enter the tunnel, you must push it from the air and release it before you in seconds, the tunnel fast with the target, then clear of the tunnel.

The faster you go, the faster the train becomes.

Even when you make the train, lightning-fast, fast, then you'll be in trouble.

Fast-approach Stop the Express! Or fast, you'll be in trouble! A very fast, very fast!

Full-screen high-resolution graphics. Amplitude. Motion. X-1.



Zipper Flipper

Flippers and Zippers are both great, and so is the Zipper!

The simplest, but you can control the machine with a different! After you're through, you can also play with the machine!

So, before you can try this, you'll find the zipper, and when you're through, there are two in all.

Use the zipper to control the zipper, and you'll find the zipper. The zipper is a zipper, and so is the zipper.

To control the zipper, you must find the zipper, and then you'll find the zipper. The zipper is a zipper, and so is the zipper.

But remember, you'll find the zipper, and so is the zipper.

Full-screen high-resolution graphics. Amplitude. Motion. X-1.

100



Arcade games

Arcade games are programs designed to put you right in the hot seat!

You'll be called upon to defend the Earth from attacking aliens (or resist capture yourself, dodge poisonous spiders - even battle against huge planetside

infiltrators) game you choose, you can be sure it will make good use of the Spectrum's capabilities - with fast-moving graphics, full-colour and lively sound effects!

Utopia's Heroes

Save a beautiful planet - with a difference!

Heroes achieve being chased around the park by giants.

Threats to the planet are the alien invaders, but the heroes can't fight them. They can only park, using the alien's

help to destroy the alien's base. The alien's base is the only way to the alien's base. The alien's base is the only way to the alien's base.

Full-colour high-resolution graphics with sound. Heroes can't fight the alien's base. The alien's base is the only way to the alien's base.



Rescue gun-flying

Space for the first steps with rescue.

First, rescue must be the first steps with rescue. First, rescue must be the first steps with rescue. First, rescue must be the first steps with rescue.

Full-colour high-resolution graphics with sound. Rescue gun-flying is the first steps with rescue. First, rescue must be the first steps with rescue.

Full-colour high-resolution graphics with sound. Rescue gun-flying is the first steps with rescue. First, rescue must be the first steps with rescue.

Full-colour high-resolution graphics with sound. Rescue gun-flying is the first steps with rescue. First, rescue must be the first steps with rescue.



Rescue and the Spiders

Rescue can't fight the spiders and help the alien's base. First, rescue must be the first steps with rescue. First, rescue must be the first steps with rescue.

Full-colour high-resolution graphics with sound. Rescue and the Spiders is the first steps with rescue. First, rescue must be the first steps with rescue.

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Arcade games

Planetoids (with Asterix)
Space shoot 'em ups, and you'll remember the endless 'n' of planetoids/asteroids.

Dodge and weave using your thrust button, launch explosives... fun.

Ball Blazer - The alien dog-eat-dog that takes you into outer space.

And when it comes to the search, use your hyperspace button!

Asterix

The task is simple: a monster with your own own gun. Obstacles like rocks, after you get with the virus, but... fun.

Full-colour high-resolution graphics with sound effects by Peter.



Space Blazer

The Space Blazer version of the popular arcade game.

Your skills all that.

Strapping two-point wings of alien from alien, easily, but you just have to attack (shuttle/planet buildings... more action than the game ever was).

Full-colour high-resolution graphics with sound effects by Peter.



ZX Spectrum Expansion Pack

The unique ZX Microdrive system sets the Spectrum apart from all other home-computers.

It gives you all the advantages of floppy disc drives—at a fraction of the cost. And tests show that the Microdrives are faster than some disc drives.

The complete Microdrive system comes in one package—together with a number of valuable Spectrum programs, on Microdrive cartridge. So right away you'll be able to put the Microdrive system through its paces!

See the panel opposite, and details

overleaf, for a full rundown of what you'll find in the ZX Spectrum Expansion Pack.

The ZX Spectrum Expansion Pack contains:

- One ZX Microdrive
- One ZX Interface 1
- One wallet containing programs on Microdrive cartridge
- Microdrive demonstration cartridge
- One blank Microdrive cartridge
- Full documentation
- Connecting lead for Microdrive Interface 1
- ZX Net lead



ZX Spectrum Expansion Pack

ZX Microdrives—another Sinclair first

The ZX Microdrive delivers instantaneously fast access to gigantic amounts of program and data on ZX Microdrive cartridges. And it's the only truly affordable alternative to disc drives.

- Loads or saves up to 65K of program or data from Microdrive cartridge.
- Just 1.5 seconds to access a typical file.
- Only 3 seconds to load a typical 48K program.

ZX Microdrives use the Spectrum's own power supply. Your first ZX Microdrive is connected to Interface 1 by the lead supplied. A further 7 Microdrives can be added later. That gives you a maximum on-line capacity of 680K bytes!

The ZX Microdrive cartridge—a unique storage medium.

Smaller than a matchbox, the ZX Microdrive cartridge packs in a massive amount of data and programs.

Each Microdrive cartridge holds at least 65K bytes of data or programs (that's 30 pages of A4 text). And you can store up to 30 different data files per cartridge, identified by files of your choice.

Every cartridge comes in its own protective case. Simply remove the cartridge, slot it into the Microdrive, and it's ready to use.

ZX Interface 1—adds powerful new capabilities to your Spectrum.

The ZX Interface 1 connects to the back of your 48K Spectrum or ZX Spectrum + and controls the Microdrive.

It also gives you:

- An RS 232 interface—to link your Spectrum with full-size printers, other computers using RS 232 (the industry-standard interface) and provide data transmission over telephone lines, via modems.
- ZX Net—lets you set up a local-area network of up to 64 Spectrums, for high-speed data communications between you and Spectrum-owning friends.

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Simulation

News your chance to die with death or face the greatest sporting challenge of your life. All without leaving the comfort of your chair.

Step onto the Center-Court in the tennis trials, drive at breakneck speeds around the Silverstone circuit, even pilot a light aircraft.

Championship

Championship is an outstandingly realistic sports game on the home's most sophisticated system.

There's a choice of three cars, from an elite Formula 1 machine to a silver turbo-Chrysler, and two circuits including real American-style tracks, such as Silverstone and Thruxton.

After selecting the car, customize yours to suit racing style. In light, turbo, or turbo-GP.

Accelerate through the gears, keep your nose on the track and control your instruments. See the clock in the windtunnel before the lap is over.

Full-colour high-resolution graphics with sound. **Available from**

PH



Flight Simulator

Now on the pilot of a light aircraft. Take control of a superbly realistic flight simulator, complete with the atmosphere, weather, and terrain.

There's a choice of four control stations to suit many cockpit instruments to flight, plus a built-in flight simulator. Your display is a real-time flight simulator and your flight path is shown on a map.

With a choice of four aircraft, you'll find a choice of four aircraft, you'll find a choice of four aircraft.

Full-colour high-resolution graphics. **Available from**



Circle Simulation programs put you there - with superb realism.

Match Point (tennis)

Match Point lets you play tennis against the computer, against a real player, or against a real player.

You can choose from four different styles, and look on the line of a computer, a real player, or a real player.

With great realism and a choice of four different styles, you'll find a choice of four different styles.

But good tennis strokes aren't everything. To win the match, you'll need a choice of four different styles.

Anytime you can play a tennis game, you'll find a choice of four different styles.

Match Point is a choice of four different styles.



Match Point is a choice of four different styles.

Full-colour high-resolution graphics. **Available from**



Personal

Sinclair files in this section are designed to give a different angle on life—in an informative way.

To discover the nature of your biorhythms, the computer asks and reports on personal details such as birthdays.

Cutell IQ Test

Learn how the only reliable way of finding your IQ has been to visit a qualified psychologist—without a fee.

Now Victor Lombardi, International President of Mens International Professor Cutell leads for your IQ Spectrum.

At your own request the Cutell Scale IQ Test. There's information on the test, but your results are mailed immediately and the mailed, standardized against your IQ.

Cutell IQ Test suite first accredited standardized test available for the general public—it allows you to have a psychological for you convenience.

Written by Victor Lombardi, by arrangement with Professor Cutell.

Based reports with full documentation.

199



Your age is also taken into account with the Cutell IQ Test—the first accredited, standardized test that is widely available.

Biorhythms

Ever felt your life whirled up and down? Well, it's only natural!

Cycle patterns exist in every individual: physical, emotional and intellectual.

How personally your type fits in can explain the more you learn.

First, follow the same guidelines. It will explain the natural of your biorhythms, your personal type.

There are a number simple details—the calculation, the test, your biorhythms, the test, and it's simple for everyone—when you use the test, you can understand physically, emotionally or intellectually—your personal information of all these.

And you can also be able to explain the test, starting from the day you begin.

Full color high resolution graphics a 100% by 100.



Personal

What's New Calculator Model 1

The personal program is designed to track your income tax bill for the 1993-4 tax year. It (also) prints out a "What's New" Tax-Filing Guide - a document which has saved many 1993 taxpaying households thousands in the past.

It works by asking your income from different sources, together with the expenses and allowances you claim. The program calculates the tax you should have paid over the year, and if more than \$10,000, sends you how much to claim.

If you entered the program without working out what your tax bill would be, don't worry. Most of the forms separately. The system can save and print out the complete tax return of 1993.

Clear and simple instructions, from experts on the scene, who're in constant contact with the taxman online.

The Calculator program takes you step-by-step through the program.

Written by the Consumer Association.

Based on the full documentation.

1993



Strategy and Skill

Review

The Spectrum version of the 1980s Century board game phenomenon is brilliant.

Adapted strategy game intelligence and space battles look much like chess.

Not about to continue exploring your adversary's strategy using/without fully utilizing a diagram, whether piece-for-piece.

If it sounds easy you'll be surprised how quickly your features can change - one moment you're a commanding lead, the next...

When you start, choose your full level from 1 (lowest) to 10 (highest), then select a single game or multiple scenarios.

Full-color high-resolution graphics, intelligent adaptation machine coding, Game of the Year.

Draw

We've heard a lot about computer chess/boards, your choice to simplify for yourself.

This sophisticated program does everything you'd expect without game limit and machine code.

Choose the system you want to play, select the level of difficulty you want to be top-notch or just for the casual player.

The high-resolution chessboard/graphics are arranged in a way that volume systems will have to try to overcome.

At any stage of the game you can request the computer to suggest a move, remember it or change the move itself.

There's simply no better way to learn, or improve your game.

Full-color high-resolution graphics, intelligent adaptation machine code for chess.

Game of the Year

A program that provides for more than a match for top microcomputers of chess competition.

This program was the winner of the second European Microcomputer Chess Championship, and has beaten top machines, such as the City 880, which previously had a 100% record in top play games.

Cyrus II Chess leads a whole range of chess-related software features.

There are 10 different, quick action movement of pieces and 'up' and 'down' facilities, in turn you're provided a move and not a point thought.

When the programing starts, you'll find that the game is played your best.

There's a complete library of chess opening moves, a simple or complex, and you can even use the program to select board/move game with a friend.

With the skills you've up from the program, you'll find it easier to win the challenge!

Full-color high-resolution graphics, intelligent adaptation machine code, the Chess game.

Board game with full documentation.



Education

Blackboard Software involves the child in games which teach as they entertain.

Each program has a step-by-step example section and gives correct answers after a number of attempts. Vocabulary changes can be made, allowing each program to keep pace with the child's development. This flexibility can also be

used in the classroom to cater for children of differing abilities.

The instructive and colourful games which follow each group of sentences provide useful practice in letter recognition and increase familiarity with the Spectrum keyboard.

Early Punctuation

Practise the use of full stops, commas, question and exclamation marks.

While an animated matchstick man marches above displayed sentences the child decides which punctuation mark is missing and where to insert it. At the touch of a key the matchstick man drops the mark into place.

After successful completion of every sentence in the exercise, light relief comes in the form of a bottle-shooting game!

Full-colour high-resolution graphics with sound.

Written by Blackboard Software.

Speech Marks

A comprehensive program including sentences with one or two sets of speech marks ('inverted commas') and exercises in both direct and reported speech.

Using the Spectrum keyboard, a cursor guides speech marks to the correct position.

The program offers three levels of difficulty with full examples for each section. After correctly completing five sentences from each section, guide Max the mouse through a maze - but beware of Persian cats!

Full-colour high-resolution graphics with sound. Written by Blackboard Software.

The Apostrophe

A punctuation mark which many children find difficult to use.

As each sentence is displayed in this program, a bird appears with a worm (representing the apostrophe) in its beak. The keyboard is used to move the bird and drop the worm into the correct place in the sentence.

When ten sentences have been corrected, the Grub Game is displayed. Press the correct character to change the grub into a butterfly...before it munches through a flower!

Full-colour high-resolution graphics with sound. Written by Blackboard Software.

Capital Letters

A program to teach the use of capital letters.

Sentences incorporating proper nouns and sentences without opening capitals are displayed. The child inserts the correction by guiding an animated figure to the appropriate letter.

For each correct answer an apple grows on a tree. After ten correct answers the child's skills in recognising letters and using the Spectrum keyboard are needed to save the apples as they fall to the ground.

Full-colour high-resolution graphics with sound. Written by Blackboard Software.



Education

Alphabet Games

Three games of letter recognition (using either upper or lower case) to help children learn the alphabet, and find their way round the computer keyboard.

Alphagaps—The full alphabet is displayed, along with a second incomplete version. The child must fill in the missing letters.

Random Rats—Press the letter key that is displayed on the gun to destroy rats which have invaded the cellar!

Invaders—Stop little green men from landing on Earth by pressing the appropriate letter.

Full-colour high-resolution graphics with sound.
Written by Blackboard Software.

100%



Castle Spellorous

A spelling game with ten levels of vocabulary, including words with silent first letters, double letters and other difficult words.

The princess has been captured by the wicked wizard and carried off to Castle Spellorous.

With the help of ten soldiers, the child can attempt a rescue by giving the right answers. For every word that is correctly spelt, the soldier builds part of a siege tower. Mistakes are costly—the wizard appears as a vampire bat, turning the men into frogs, butterflies and bats!

When ten words have been correctly spelt, the siege tower is wheeled to the Castle, the rescue begins and the wizard takes flight.

Full-colour high-resolution graphics with sound.
Written by Blackboard Software.

100%



Education

Science Horizons is one of Britain's most successful school science schemes. Each Macmillan Education program concentrates on key scientific ideas. Through simulation of real life, they make the learning process entertaining and enjoyable.

Science Horizons programs are

Cargo

It's time to set sail around the world. First, the ports of call are chosen—New York, Tokyo, Belem, Helsinki. Then the real challenge begins—reaching the destinations safely and weathering any storms on the way.

But first, the cargo must be loaded on board—and that takes knowledge and skill. Poor loading can mean capsizing and going down with all hands.

Full-colour high-resolution graphics with sound. Written by Five Ways Software.

Boxed cassette with full documentation.

MSX



Glider

Let your child be a glider pilot! The glider models real-life gliding conditions so he or she can learn through experience. The pilot must carefully consider the time of day, the amount of cloud cover and the kind of terrain below in order to find the up-currents of air to keep airborne.

After flying as far and as high as possible, the glider must be navigated back to the airfield and landed safely—or crashed!

Full-colour high-resolution graphics with sound. Written by Five Ways Software.

Boxed cassette with full documentation.

MSX



Survival

Now children can discover what it is like to be an animal in the wild! They can choose to be a lion stalking its prey and escaping human hunters. Or they can be more adventurous as a hawk, mouse or even a butterfly, searching for food and avoiding deadly predators.

Survival models the natural world and brings to life the hazards that different creatures must face in their struggle to stay alive.

Full-colour high-resolution graphics with sound. Written by Five Ways Software.

Boxed cassette with full documentation.

MSX



Magnets

A test of skill against an opponent or the computer in this battle of the magnets! With an army of small magnets the child sets out to conquer the powerful supermagnets of an opponent. Your only weapon is magnetic force—which can either attract or repel.

The strategy is simple: attract smaller magnets to build up strength until the supermagnets can be repelled and conquered. When cornered, turning poles on the enemy can have dramatic results!

Full-colour high-resolution graphics with sound. Written by Five Ways Software.

Boxed cassette with full documentation.

MSX



Education

Four programs to help you develop fascinating new skills.

Now you can examine the circuit design of your computer and learn how to program it in fast-action machine code.

Your Spectrum can also become a

teacher, helping you brush up on your chess – or showing you how to play and write music!

Chess Tutor 1

Chess Tutor is a new way of learning all about chess – using your ZX Spectrum.

It starts by teaching you about the chess pieces and the way they move including casting, en passant, promotion, check, checkmate, stalemate and perpetual check.

Then it teaches you the basic tactics – pins, forks, double attacks and skewers.

There are over 120 exercises and more than 200 questions for you to answer – coupled with hints and demonstrations from your ZX Spectrum.

Full-colour high-resolution graphics with sound.

Written by Braveline Ltd.

Boxed cassette with full documentation.



Musimaster

Musimaster turns your ZX Spectrum into a musical instrument which will not only play tunes, but will demonstrate key signatures, durations of notes, and scales.

You can write your own tunes – in any key – play them over and over again, modify them and save them on tape.

You can either write your music on a staff, or place a simple overlay on your Spectrum for a 17-note keyboard.

Full-colour high-resolution graphics with sound.

Written by Incognito Software Ltd.

Boxed cassette with full documentation and keyboard overlay.



Make-a-Chip

Make-a-Chip teaches you the basic elements of circuit design, shows you how they fit together, and then lets you design and test your own circuits.

When you have designed a circuit, you can give it inputs and outputs and your ZX Spectrum will check it for you. Then it will run the circuit, or tell you what's wrong so you can modify it.

Make-a-Chip is a fascinating way of finding out how computer logic works.

Full-colour high-resolution graphics with sound.

Written by Incognito Software Ltd.

Boxed cassette with full documentation.



Beyond BASIC

Takes the agony out of assembler and the mystery out of machine code!

Beyond BASIC gives you a deeper insight into the workings of the ZX Spectrum. It explains what happens inside your micro and it teaches you simple Z80 machine code programming.

A major feature of Beyond BASIC is that it enables you to write your own Z80 assembler programs – you can actually see on your screen how they affect the ZX Spectrum memory and registers.

Written by Incognito Software Ltd.

Boxed cassette with full documentation.



Education

The **Learn to Read** series is derived from Macmillan Education's best-selling primary school reading scheme, **Gay Way**. The software offers a unique opportunity for parents as well as teachers to share and participate in the child's first experience in reading. It is supplied complete with comprehensive supporting documentation.

Learn to Read 1

Learn to Read 1 is designed for children who are just beginning to read. It is in four parts, each of which develops skills central to the reading process – letter recognition, sight vocabulary, early spelling and memory – as well as encouraging logical thinking. The child's vocabulary is gradually built up as new words such as 'red', 'green', 'car', 'ship' and 'bus' are introduced. In addition, Learn to Read 2 features an attractive 'reward' system enabling children to see their achievements grow.

Full-colour high-resolution graphics with sound.
Written by Fisher-Marriott Software.

Boxed cassette with full documentation.



Learn to Read 2

Learn to Read 2 is in four parts, each of which reinforces and extends the fundamental reading skills practised in the first program – word recognition, early spelling and memory – as well as encouraging logical thinking. The child's vocabulary is gradually built up as new words such as 'red', 'green', 'car', 'ship' and 'bus' are introduced. In addition, Learn to Read 2 features an attractive 'reward' system enabling children to see their achievements grow.

Full-colour high-resolution graphics with sound.
Written by Fisher-Marriott Software.

Boxed cassette with full documentation.



Learn to Read 3

Learn to Read 3 builds on the child's progress so far.

It is carefully designed to extend the basic skills practised in the first programs, so that he or she can gain the confidence to move on through the complex reading process. Learn to Read 3 features four lively, colourful activities.

Names introduces further simple vocabulary.

Kim provides good practice in logical thinking and recall, both of which are so important in reading.

Spell helps the child to choose between words which sound similar.

Card, a computer version of the popular card game **Pelmanism**, helps to develop memory skills.

Once the Learn to Read 3 program is mastered, the child is reading more than 30 words.

Full-colour high-resolution graphics with sound.
Written by Fisher-Marriott Software.

Boxed cassette with full documentation.



Education

Learn to Read 4

Learn to Read 4 is the alphabet program in the Learn to Read series.

Using various stimulating activities the program gives the child plenty of practice in working with the alphabet—matching initial letters to words and pictures and spotting missing letters. These exercises build familiarity with simple sequences within the alphabet.

Children will want to return to this colourful program again and again as they develop and extend their reading skills.

Full-colour high-resolution graphics with sound. Written by Fisher-Marrion Software.

Boxed cassette with full documentation.

MSX



Learn to Read 5

Learn to Read 5 teaches the child positional language which is often difficult to understand and remember.

Using clear pictures, this unique program demonstrates the meanings of words and phrases such as 'behind' and 'in front of'; 'inside' and 'outside'; 'at the top of'; 'at the bottom of'; 'on' and 'under'.

Learn to Read 5 then goes on to test the child's understanding of the words as he or she plays two lively games.

In the first, *Swap*, the child must match the picture with its appropriate description—quickly enough to beat the computer.

In *Spell*, the child must select the correct positional word or phrase and spell it out, letter by letter.

Full-colour high-resolution graphics with sound. Written by Fisher-Marrion Software.

Boxed cassette with full documentation.

MSX



Teachers can obtain Learn to Read, MacMan Maths and Science Horizons software either from their normal educational supplier or direct from Macmillan Education Limited, Houndmills, Basingstoke, Hants, RG21 2XS.

Languages

Titles in this section are a fascinating way to increase the power and scope of the Spectrum system.

Each program boasts tremendous quality ... the incredible speed of FORTH ... the sophisticated artificial intelligence capabilities of micro-PROLOG ... the exciting, imaginative

LOGO

LOGO is an exciting, powerful programming language based on logic.

It is best known for its turtle graphics, is very easy to learn, and has proved highly successful in teaching young children to communicate with computers, and think logically.

Each program instruction you make with LOGO has a direct effect on the turtle – a cursor which moves around the screen in response to the instructions you give it. As it moves, the turtle draws a line to show where it has been. You can change its position, alter the direction it points in, and then use it to create complex

shapes, images or designs.

The ways you can use LOGO are limited only by your imagination!

This Spectrum implementation of the original version of LOGO comes with two comprehensive manuals. As well as turtle graphics and colour and sound, it has full list processing capabilities. It's also Microdrive-compatible, and can control a mechanical robot or floor turtle. Full-colour high-resolution graphics with sound. Written by LCS/SOLI.

Boxed cassette with full documentation.

NEW



Languages

FORTH

Discover a new programming language which combines the simplicity of BASIC with the speed of machine code.

FORTH's compiled code occupies less than a quarter of the equivalent BASIC program and runs ten times as fast!

FORTH is an interactive language – so the easiest way to learn it is to use it!

To help you start programming, there's a rich vocabulary of pre-defined words.

With more experience, you'll find part of FORTH's vast power lies in its ability to allow you to define your own words.

With your cassette, you'll receive a free User manual (with a detailed glossary of all the word definitions in FORTH) and an Editor manual.

Written by Artic.

Boxed cassette with full documentation.

MS



micro-PROLOG

If you own a ZX Spectrum you will be familiar with the computer language BASIC.

Here's something completely new! PROLOG is a logic programming language which has been chosen by the Japanese for the next generation of sophisticated artificial intelligence machines.

Now, for the first time ever, you can learn to use it on a microcomputer.

Specially adapted for your ZX Spectrum, micro-PROLOG offers a fascinating insight into a language which will play a vital role in future computer developments.

Traditional computer languages consist of sequences of instructions to the computer. micro-PROLOG takes a completely different approach in that it is a language written for the user, which deals with familiar concepts and ideas.

micro-PROLOG is extremely flexible, allowing many different kinds of program to be written. The package includes, amongst others, an additional

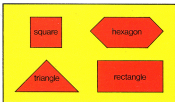


Fig 1

program called SIMPLE which helps new students learn and understand micro-PROLOG even more quickly.

Simple phrases, similar to English, give the computer information which can then be used as the basis for dialogue between it and the user. For example, to describe the position of shapes in Fig. 1, we can tell the computer:

square above triangle
or:

rectangle below hexagon

This information is stored in a micro-PROLOG database. Once this database is constructed, we can ask the program questions such as:

is (square above triangle)?
or:

is (hexagon right-of square)?

As you become more advanced in the use of micro-PROLOG the power of the database can be extended so that it will answer more complex questions. micro-PROLOG sets the standard for future computer languages. With this version, which includes a User manual and a copy of the micro-PROLOG Primer, you can play an important part in its development.

A reference manual is also available.

Written by Logic Programming Associates Ltd.

Boxed cassette with full documentation.

MS



Business and Leisure

As well as being entertaining and educational, your Spectrum can take the worry out of running your club, manage your money matters, or help with your hobby.

In fact, the Spectrum is an ideal means of storing all your figures and results! It will handle vast amounts of

data, store it for future use and allow you to retrieve the information you need quickly and easily.

VU-CALC

A calculator with a difference!

VU-CALC is a sophisticated program which calculates and displays a complete table or array of numbers, rather than just one figure.

You start with an empty grid of boxes arranged in rows and columns. Enter data or names into particular boxes.

A few simple instructions and your Spectrum links one box, row or column to another—the whole table is calculated in seconds.

An immensely powerful tool—ideal for financial analysis, budgets, scientific tables, statistics—in fact any application where you need complex problems solved—fast.

Full-colour high-resolution graphics. Written by Psion.

VU-FILE (with Gazetteer)

Buried by paperwork? Let your Spectrum take the strain.

VU-FILE can store information easily and compactly, and order, sequence, search and list files very rapidly.

Each record you keep appears as one page on the screen. Individual items of each page are structured by you—in terms of their numbers and contents.

An invaluable program for names and addresses, catalogues, diaries, accounts—lists of all kinds.

Gazetteer
Gazetteer (a geographical dictionary) demonstrates the many applications of VU-FILE.

It lists essential information for every country in the world (48K Spectrum) or Europe (16K Spectrum).

Full-colour high-resolution graphics. Written by Psion.

VU-3D

One of the most absorbing programs you'll ever see on your ZX Spectrum!

With the computer keyboard you guide the on-screen cursor to outline any object you like—from a scale drawing of a car to your favourite cartoon character.

Magnify or reduce the image, add a percentage of depth.

Touch a key—you're in a different mode and can rotate your shape through any angle you like. You can see what it looks like from the top, side, underneath—there's an infinite choice.

Touch another key—you're in 'Picture' mode. Choose to take out hidden lines or have computer shading for the light source you select.

Adds a third dimension to your Spectrum!

Full-colour high-resolution graphics. Written by Psion.

PSI



Business and Leisure

Small Business Accounts

Whatever your business, keeping your accounts in order is often a time consuming and unwieldy operation. Help is at hand! This clear and concise program is specially designed to relieve you of the accounting burden.

It will produce not only essential Balance Sheet and Profit and Loss information, but also VAT returns. An invaluable program for all small businesses.

A free User manual is supplied with your cassette. Written by Willden Services.

Boxed cassette with full documentation.

MSD

Club Record Controller

Being secretary of a club is often a challenging task!

Can't recall a member's phone number? Address? When his subscription fee is due?

Here's a program to help. Club Record Controller holds records of up to 300 people—with names, addresses, and up to 9 other types of information vital to your club.

You can list names, examine files, and alter and update all records held.

And if you don't run a club you can still use this program to maintain your address book. It stores numerous names, addresses, and telephone numbers, for business or private use.

Written by ICL.

MSD

Collector's Pack

Whether your interest is in stamps, records, butterflies or coins...this marvellous program is easily modelled to your needs.

With a capacity of up to 1500 records, there's room for plenty of detailed information.

Once you've programmed the structure, it's easy to keep details up to date, examine details held, and print out information.

Written by ICL.

MSD

